Recovery Plan Action Status

Plan Name: Recovery Plan for Haplostachys haplostachya and Stenogyne angustifolia

Plan Status: Draft Plan Date: 20-Sep-93 Lead Agency: USFWS

Lead Office Pacific Islands Fish And Wildlife Office 792-9400)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	11	Negotiate agreements for management of Pohakuloa habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	12111	Choose which sub- populations to fence	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	12112	Construct and maintain fenced enclosures	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	1212	Establish feral ungulate control program	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	1221	Determine effects of military activities	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	1222	Develop base regulations restricting uses	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	1223	Post signs around exclosures and other sensative areas	Not Started			U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	1231	Develop fire control plan for PTA habitat areas	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	1232	Implement fire control plan at Pohakuloa	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	1241	Remove alien plants within exclosures	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys) haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	1	1242	Reduce alien plants outside exclosures	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	125	Control any additional limiting factors, if necessary	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	1	13	Develop and maintain a monitoring program	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	2	21	Study reproductive biology, pollinators and germination mechanisms	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	2	22	Assess the effects of introducing birds	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division, U.S. Army	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	2	23	Assess the effects of introduced insects	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	2	24	Assess the effects of disease	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys) haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	2	311	Locate extant but as yet undiscovered plants at PTA	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	2	3131	Survey for both species on Maui	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys haplostachya)	2	3132	Survey for H.haplostachya on Kauai	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	321	Determine which new sites should be protected	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	322	Negotiate agreements for management of new sites	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	323	Control threats to new sites, if needed	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	331	Research genetic variability and possible inbreeding	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division, U.S. Army	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys haplostachya)	2	332	Develop propagation techniques	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, National Tropical Botanical Garden, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	333	Establish a propagule reservoir	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, National Tropical Botanical Garden, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Army	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	334	Select genetic stock for augmentation/resta blishment	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	335	Determine appropriate augmentation techniques	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys haplostachya)	2	336	Determine optimal habitat requirements	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	337	Select specific areas for qugmentation / reestablishment	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya)	2	34	Implement augmentation / reestablishment	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	3	41	Determine # of populations needed for long term survival	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	
Honohono (Haplostachys haplostachya), No common name (Stenogyne angustifolia var. angustifolia)	3	42	Determine # of individuals needed for long-term survival	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Division of Forestry and Wildlife, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Work type not yet selected	Labor type not yet selected	

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Honohono (Haplostachys), No common name (Stenogyne angustifolia var. angustifolia)	3	43	Revise recovery objectives	Not Started				selected	Labor type not yet selected	